

Fig. 2

300

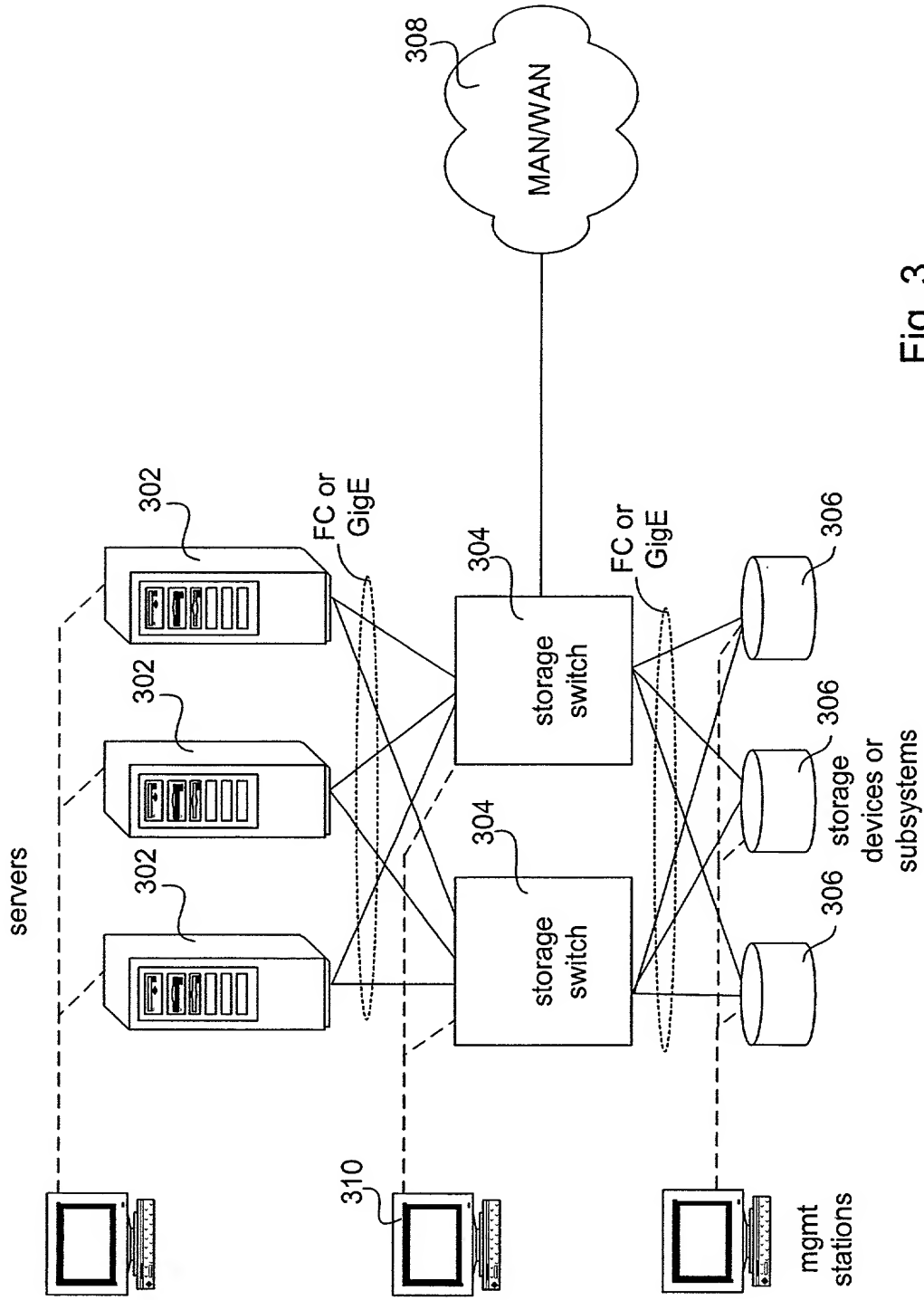


Fig. 3

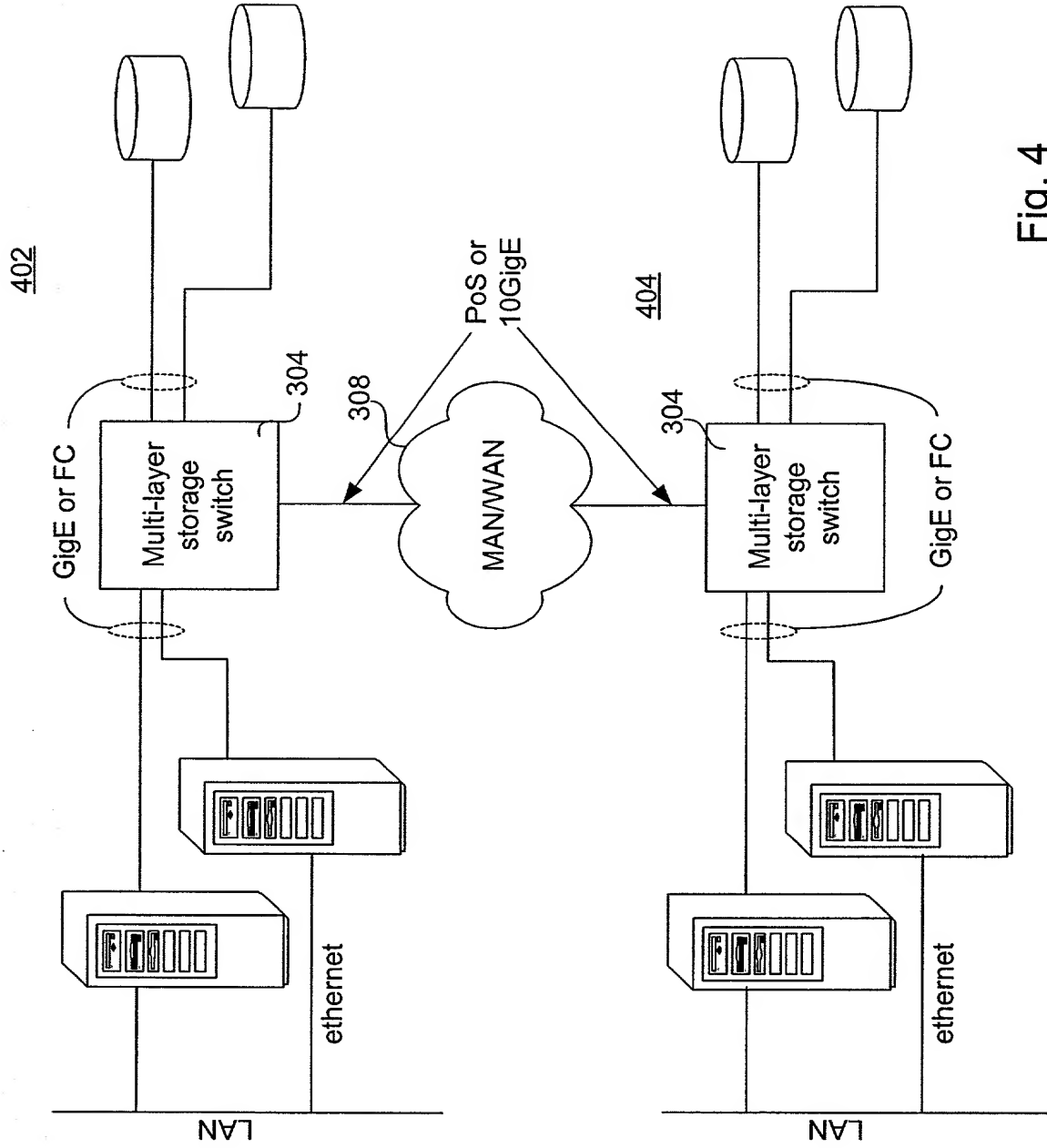


Fig. 4

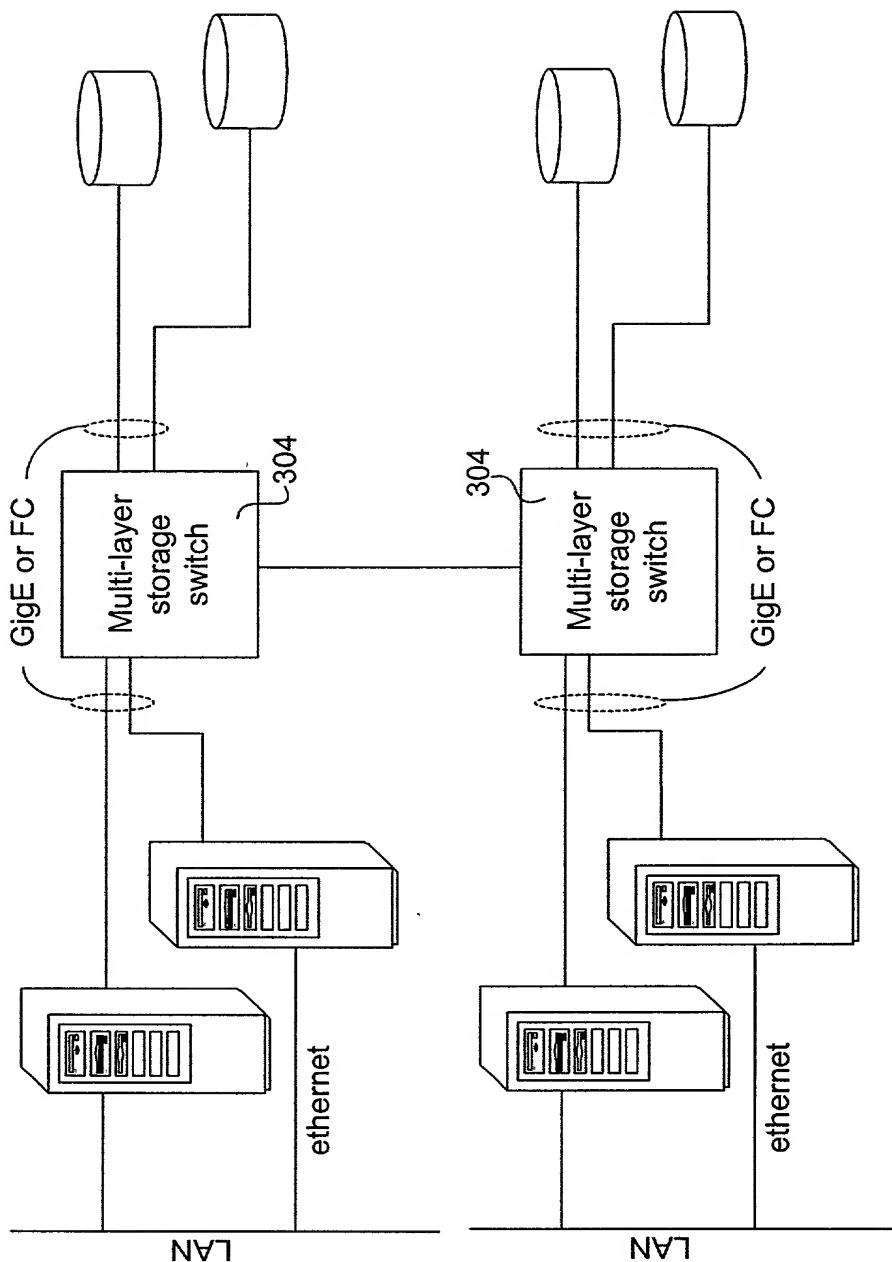


Fig. 5

304

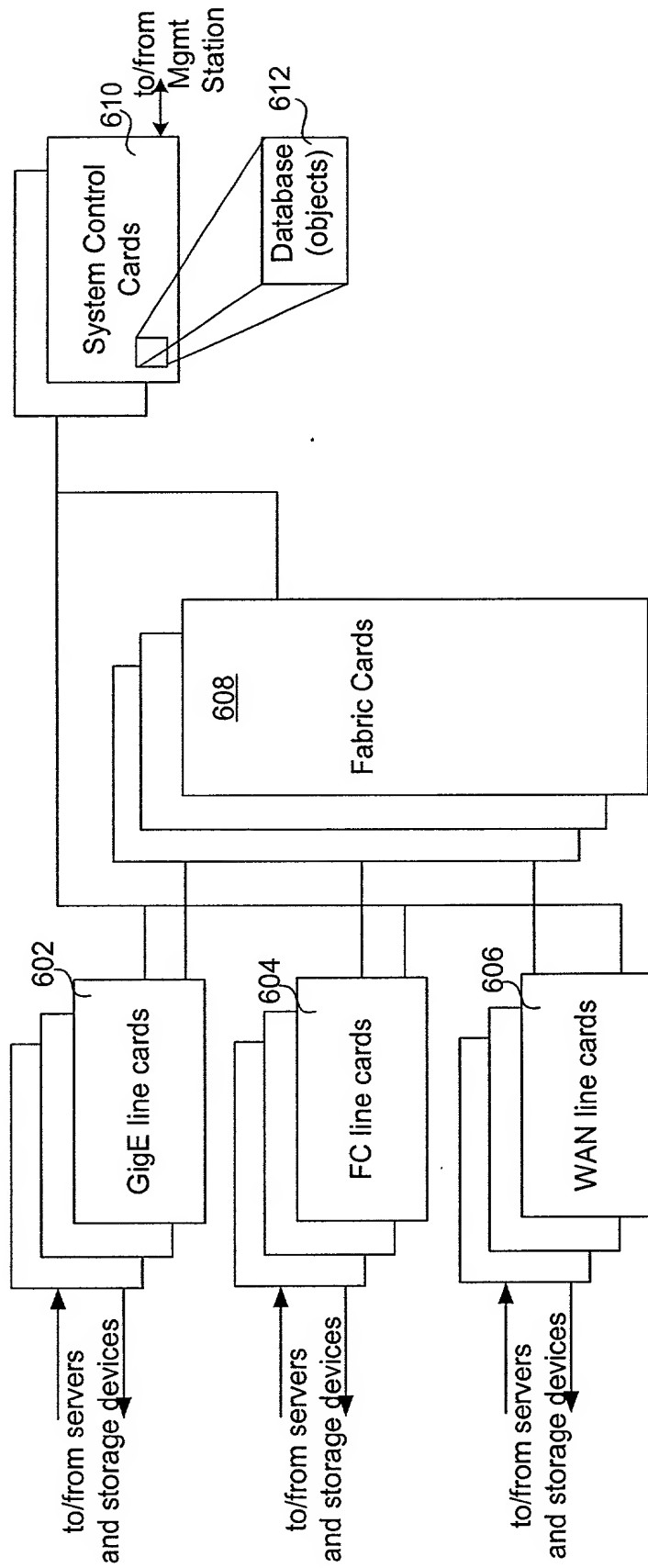


Fig. 6

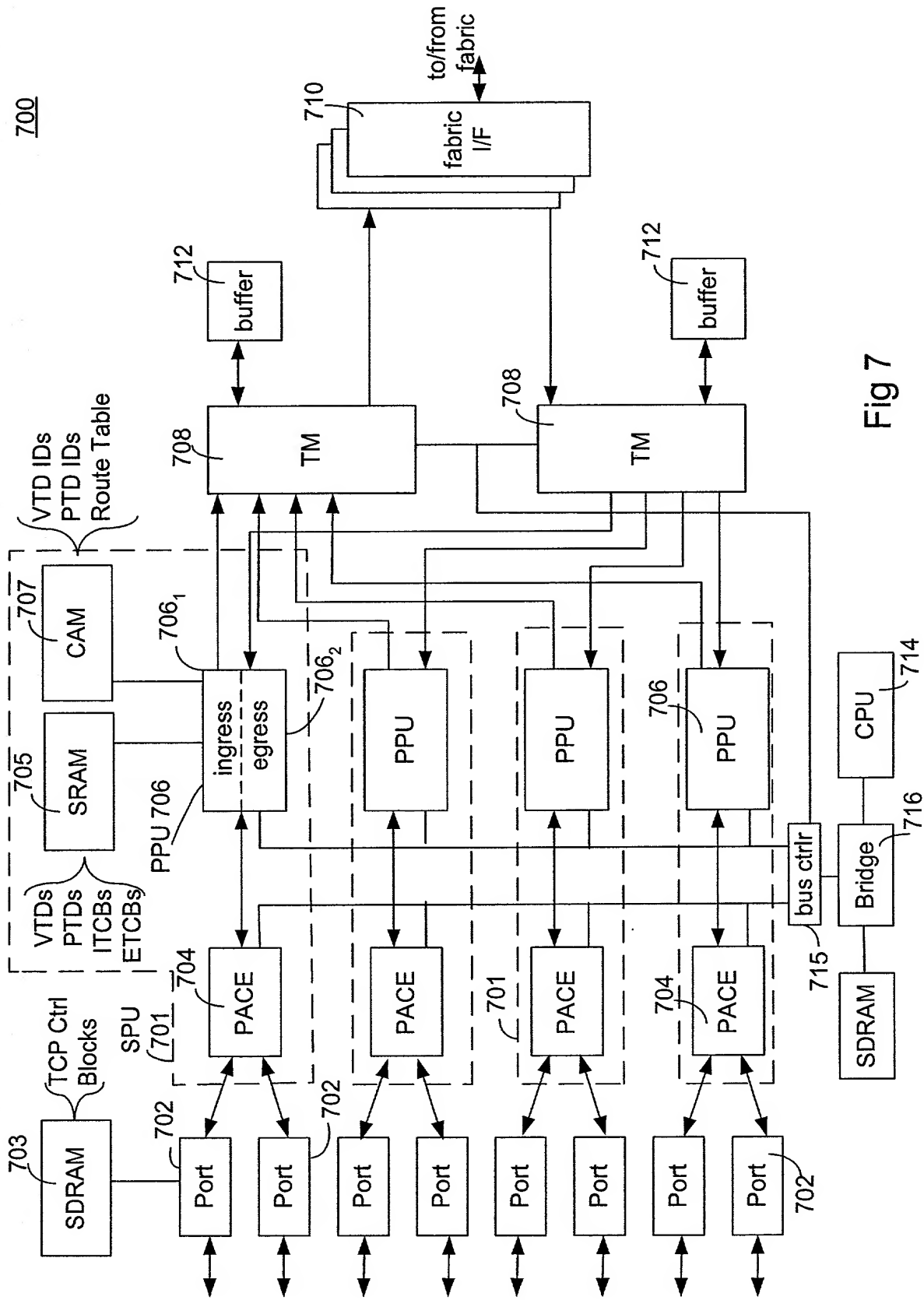
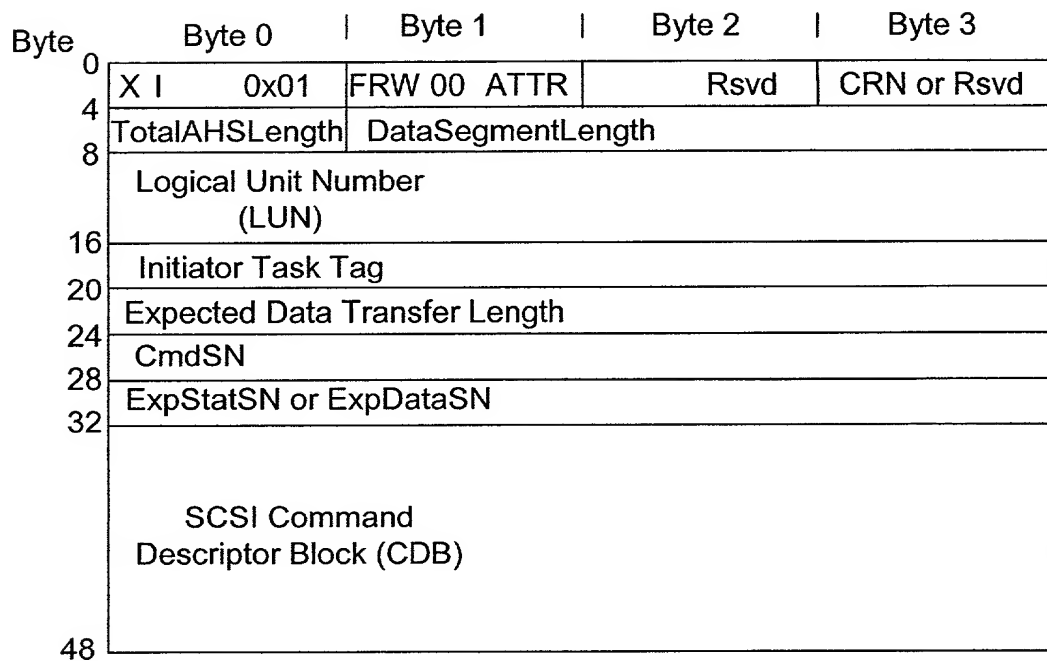


Fig 7

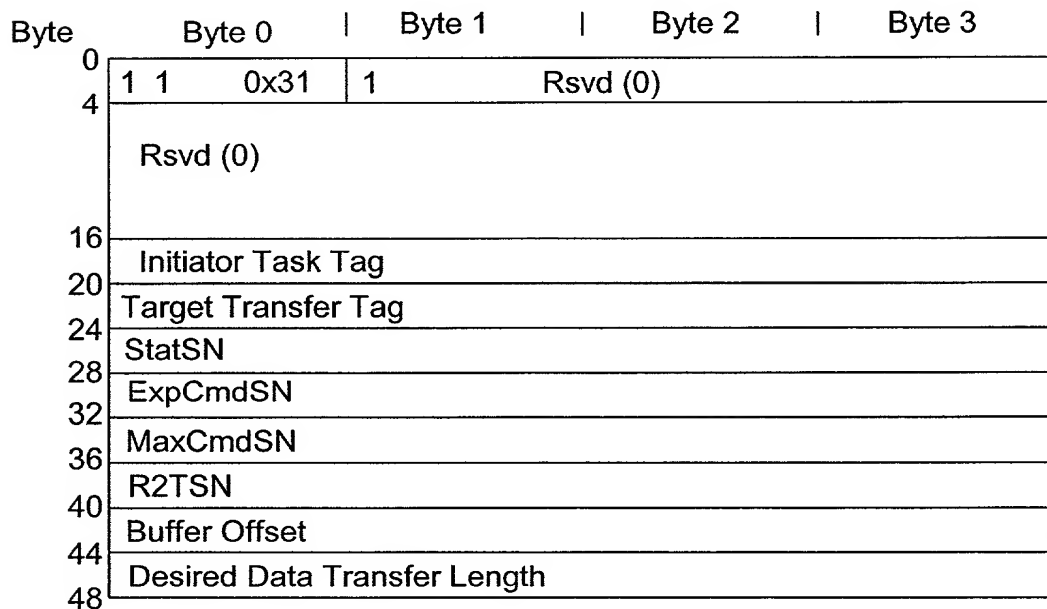
VTD

VTD ID
FlowID
Extent Descriptors (e.g., size, location)
of outstanding commands
Max # of commands
Response time
LUN
TCP control block index
S_ID/D_ID
MaxCmdSN
Total open sequences

Fig. 7a



iSCSI Command PDU
Fig. 8a



iSCSI R2T PDU
Fig. 8b

Byte	Byte 0	Byte 1	Byte 2	Byte 3
0	0 0	0x05	F	Rsvd (0)
4	Rsvd (0)	DataSegmentLength		
8	LUN or Reserved (0)			
16	Initiator Task Tag			
20	Target Transfer Tag or 0xffffffff			
24	Rsvd (0)			
28	ExpCmdSN			
32	Rsvd (0)			
36	DataSN			
40	Buffer Offset			
44	Rsvd (0)			
48	Data			

iSCSI Write Data PDU
Fig. 8c

Byte	Byte 0	Byte 1	Byte 2	Byte 3
0	1 1	0x25	F	O U S
4	Rsvd (0)	DataSegmentLength	Rsvd (0)	Status or Rsvd
8	Rsvd (0)			
16	Initiator Task Tag			
20	Rsvd (0)			
24	StatSN or Rsvd (0)			
28	ExpCmdSN			
32	MaxCmdSN			
36	DataSN			
40	Buffer Offset			
44	Residual Count			
48	Data			

iSCSI Read Data PDU
Fig. 8d

	Byte 0	Byte 1	Byte 2	Byte 3
0	1 1 0x21	1 rsv 0 u 0 u 0	Status	Response
4	Rsvd (0)			
8	DataSegmentLength			
16	Rsvd (0)			
20	Initiator Task Tag			
24	Basic Residual count			
28	StatSN			
32	ExpCmdSN			
36	MaxCmdSN			
40	ExpDataSN or Rsvd (0)			
44	ExpR2TSN or Rsvd (0)			
48	Bidi-Read Residual Count			
	Sense Data and Response Data (optional)			

iSCSI Response PDU

Fig. 8e

2025-11-14 01:00:44

Bits Word	31-24	23-16	15-08	07-00
0	R_CTL	D_ID		
1	rsvd	S_ID		
2	TYPE	F_CTL		
3	SEQ_ID	DF_CTL	SEQ_CNT	
4	OX_ID		RX_ID	
5	RLTV_OFF			

FC Frame Header
Fig. 8f

Field Name	Description	Size
FCP_LUN	logical unit number	8 bytes
FCP_CNTL	control field	4 bytes
FCP_CDB	SCSI command descriptor block	16 bytes
FCP_DL	Data Length	4 bytes

FCP_CMND Payload
Fig. 8g

Field Name	Description	Size
DATA_RO	Relative offset of first byte of FCP_DATA IU that follows	4 bytes
BURST_LEN	length of FCP_DATA IU that follows	4 bytes
rsvd		4 bytes

FCP_XFR_RDY Payload
Fig. 8h

Field Name	Description	Size
rsvd		4 bytes
rsvd		4 bytes
FCP_STATUS	field validity and SCSI status	4 bytes
FCP_RESID	residual count	4 bytes
FCP_SNS_LEN	Length of FCP_SNS_INFO field	4 bytes
FCP_RSP_LEN	Length of FCP_RSP_INFO field	4 bytes
FCP_RSP_INFO	FCP response info	m bytes
FCP_SNS_INFO	FCP sense info	n bytes

FCP_RSP Payload
Fig. 8i

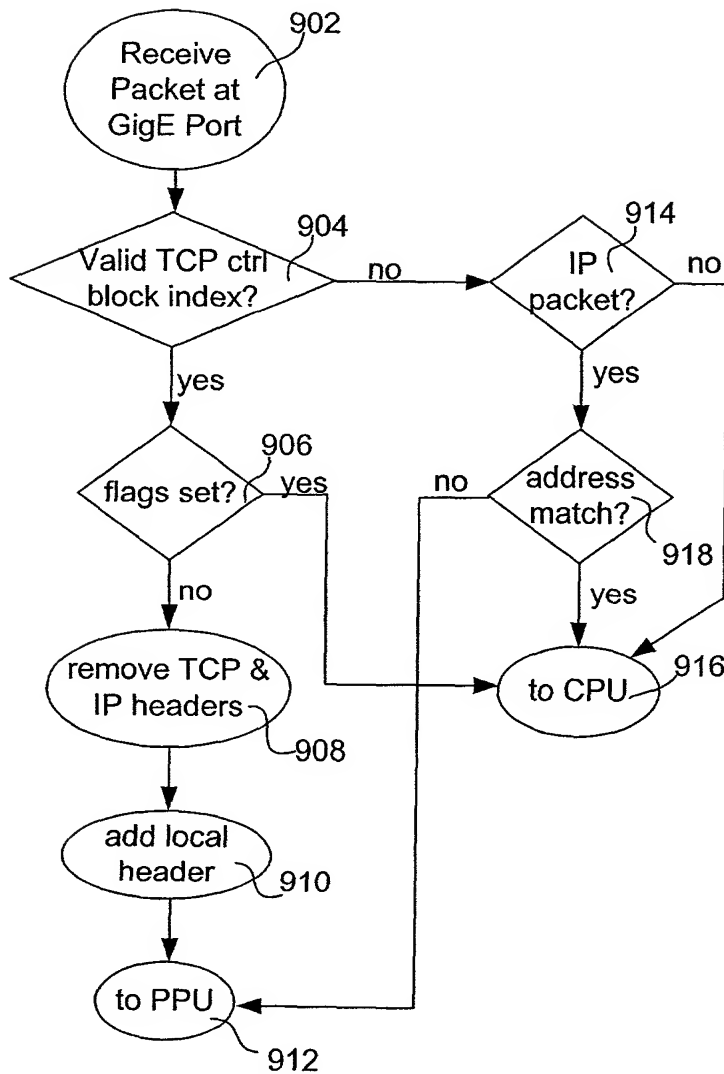


Fig 9a

(Classification - PACE - iSCSI - ingress)

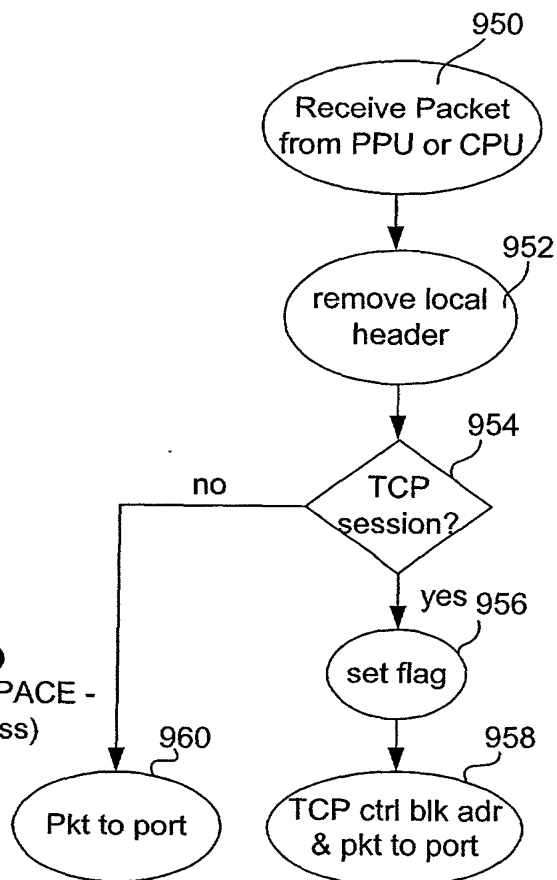


Fig 9b

(Classification - PACE - iSCSI - egress)

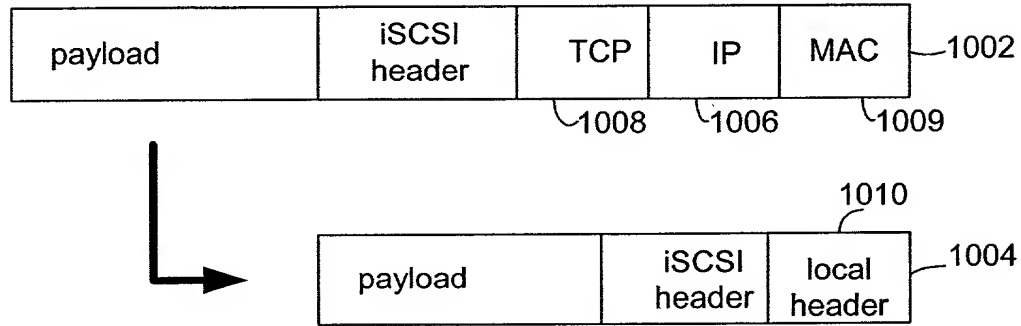


Fig. 10a

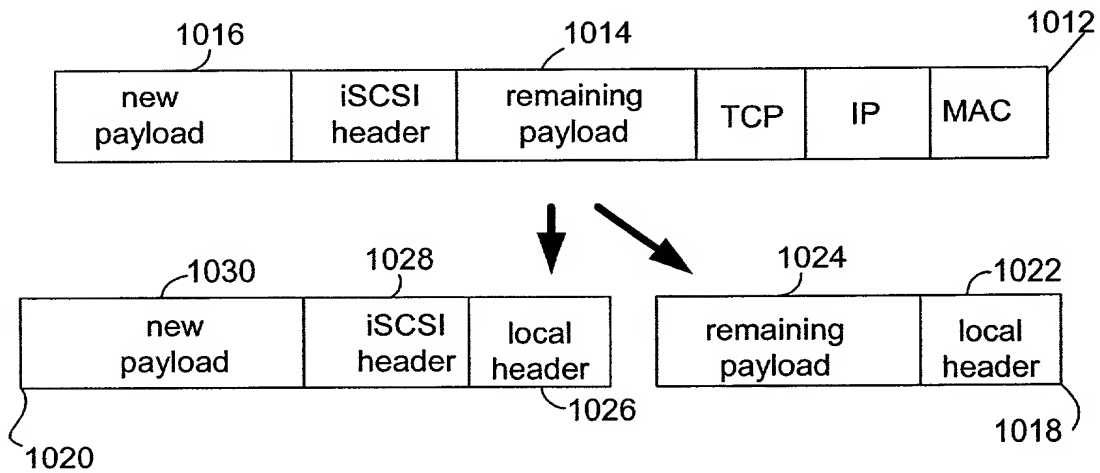


Fig. 10b

Local Header 1100

VTD ID
FlowID
TCP Control Block Index
Type
Size
Task Index
Source (Port, PACE, Linecard, CPU)
Destination (Port, PACE, Linecard, CPU)

Fig. 11

2025-11-14 04:13:02

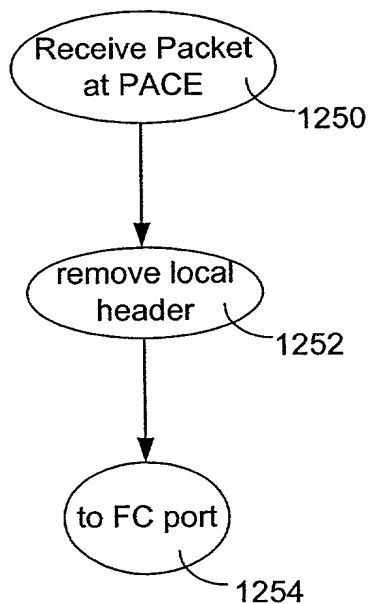
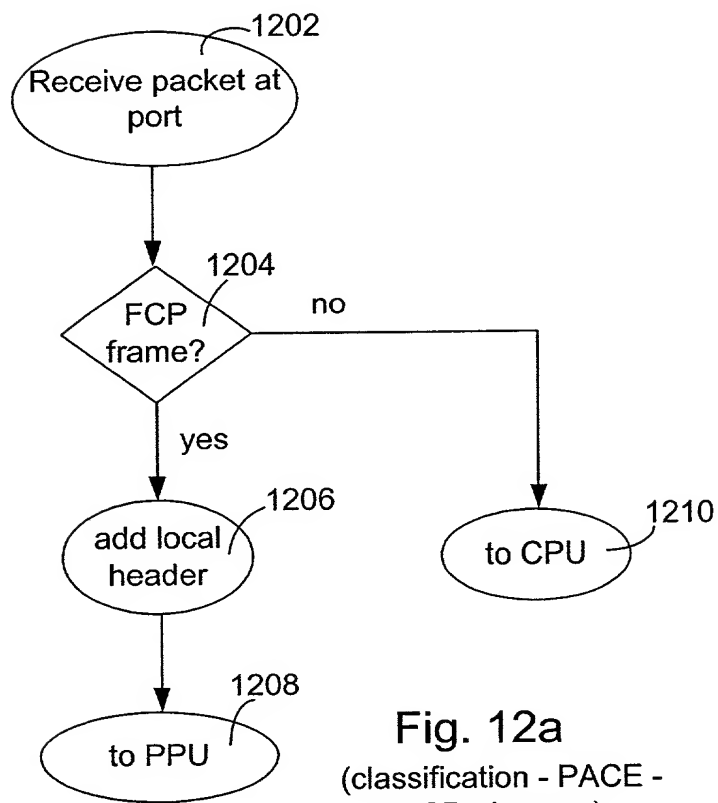


Fig. 12b
(classification - PACE -
FCP - egress)

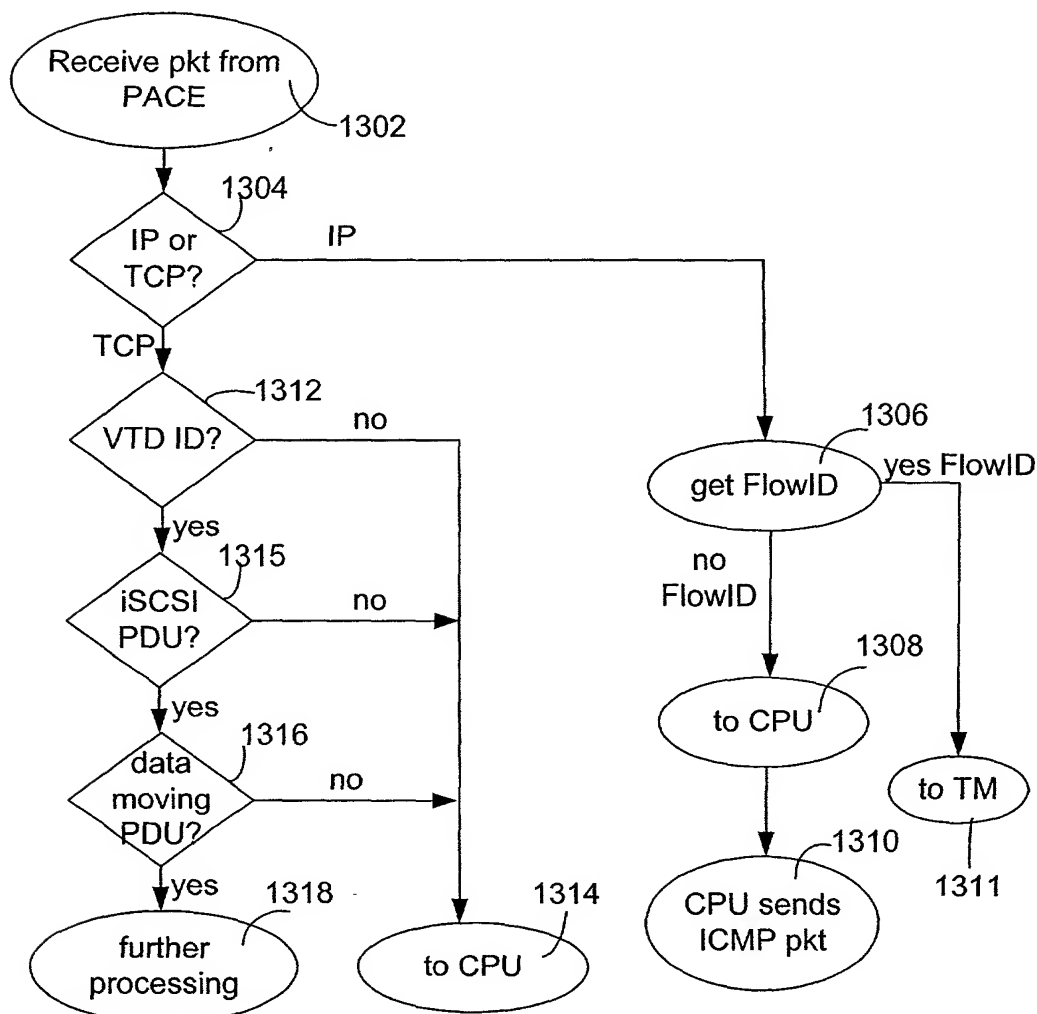


Fig. 13a
(Classification - PPU -
ingress)

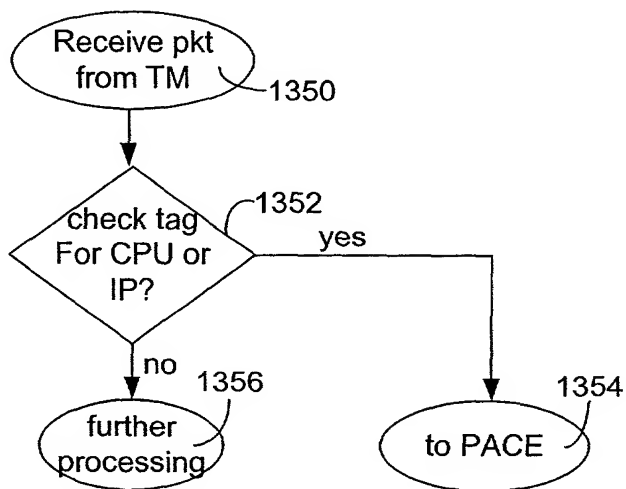


Fig. 13b
(Classification - PPU -
egress)

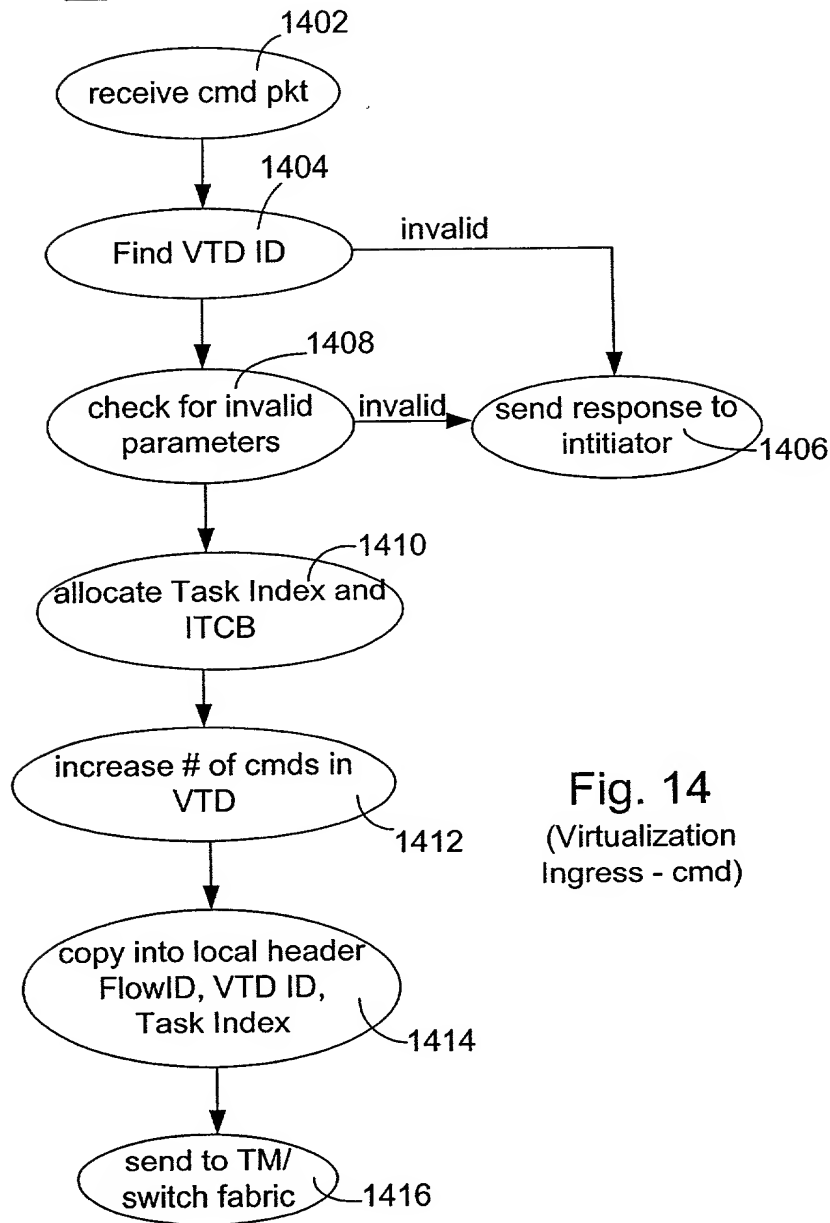


Fig. 14
(Virtualization
Ingress - cmd)

2025-04-09 15:00

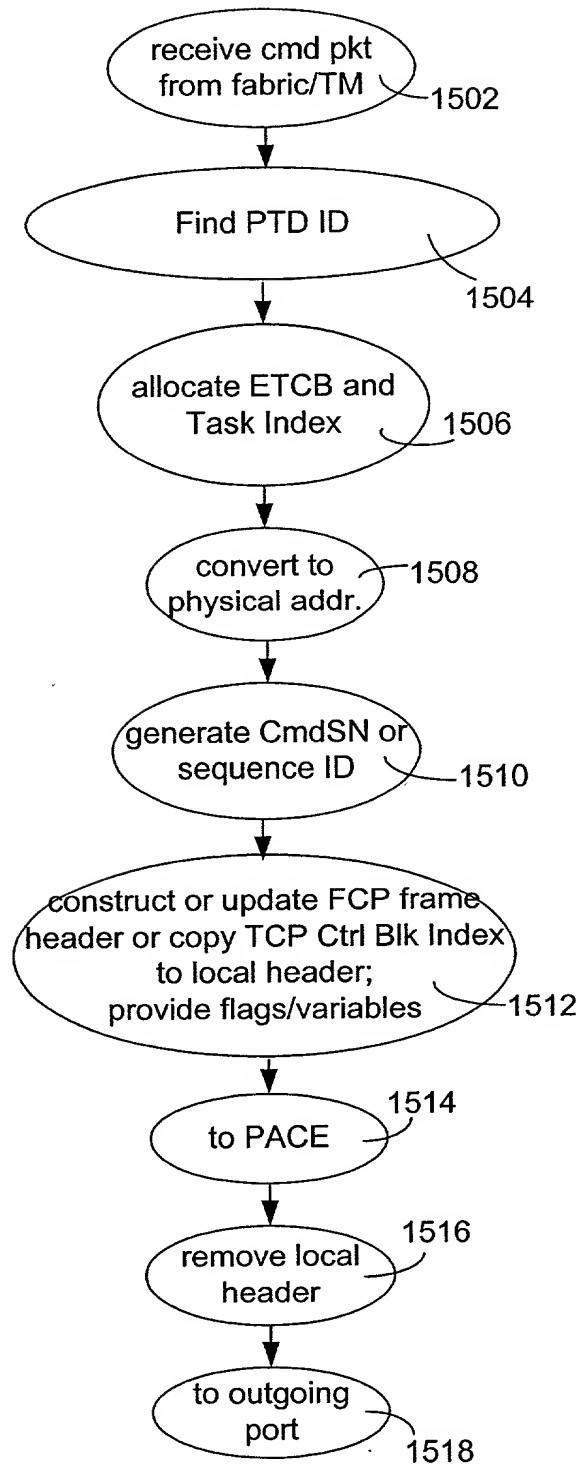
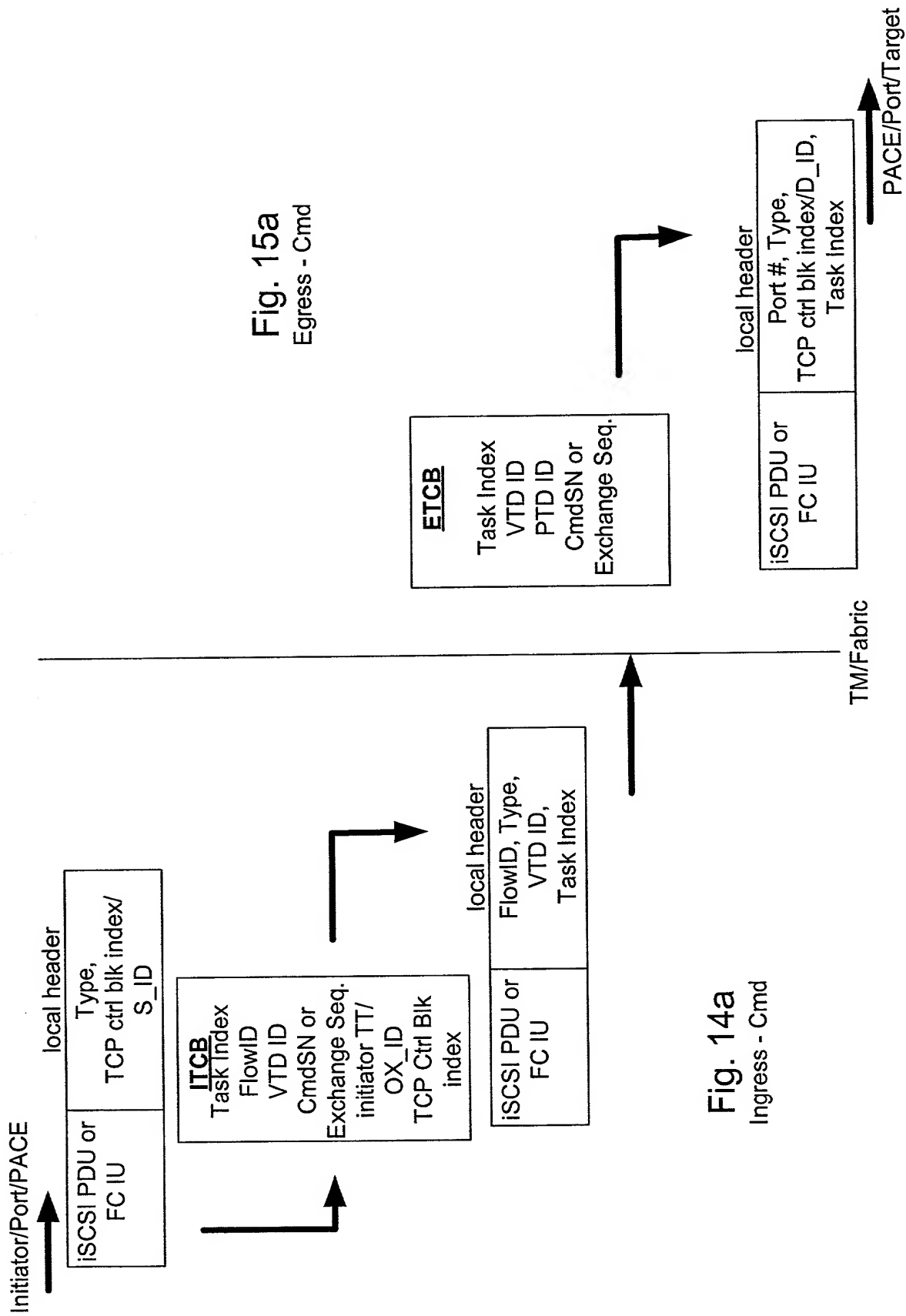


Fig. 15
(Virtualization -
Egress - cmd)



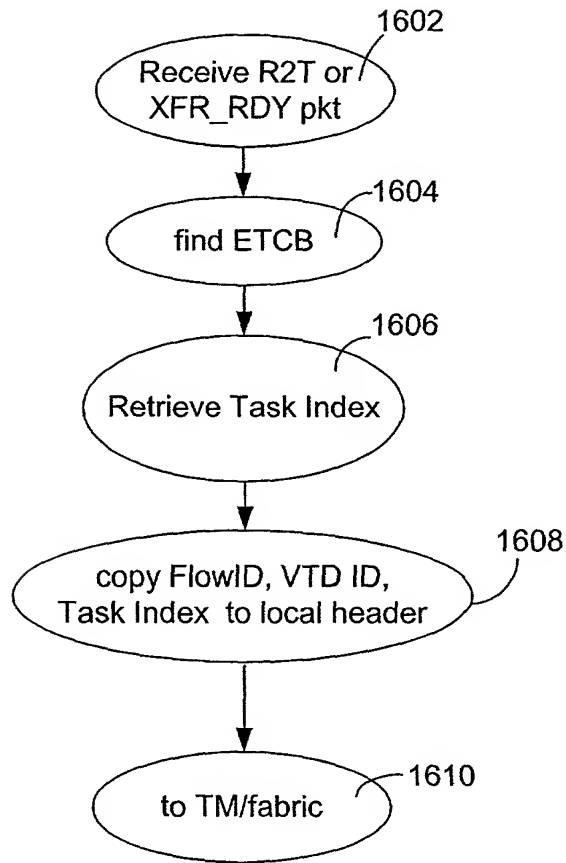


Fig. 16
(Virtualization - Ingress -
R2T/XFR_RDY)

1051154-011802

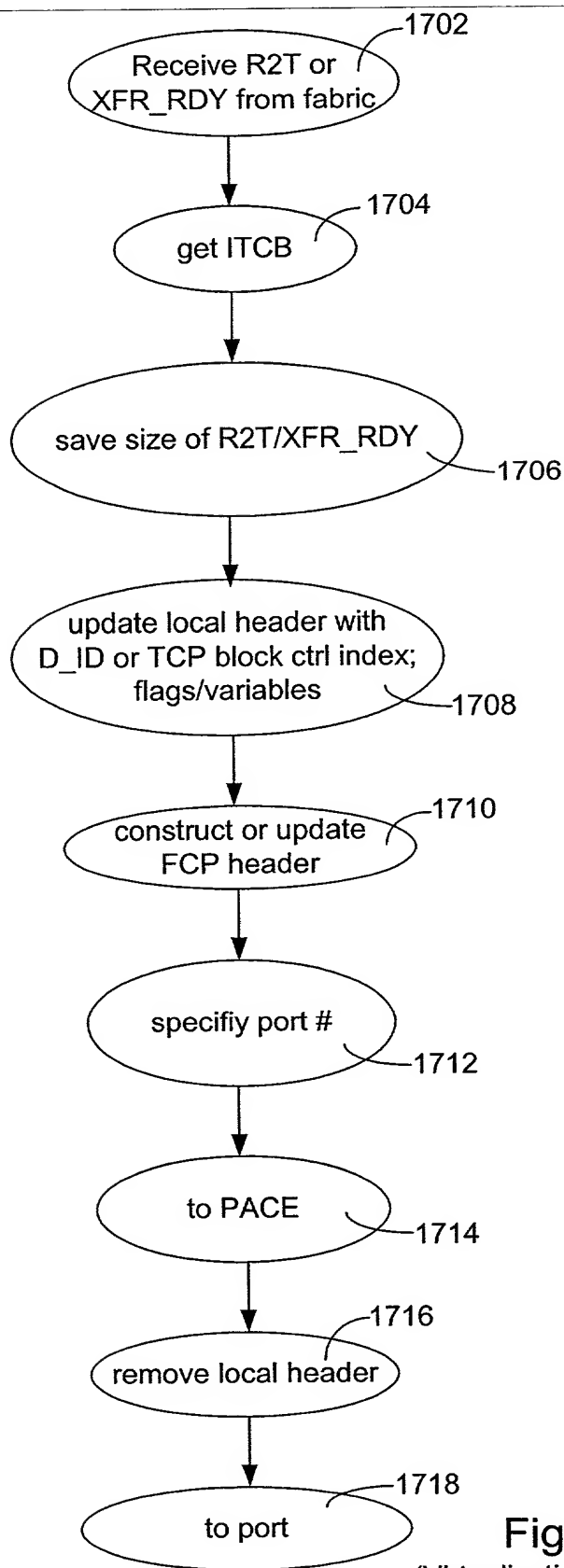


Fig. 17
(Virtualization - Egress -
R2T/XFR_RDY)

Fig. 17a
Egress - R2T/XFR_RDY

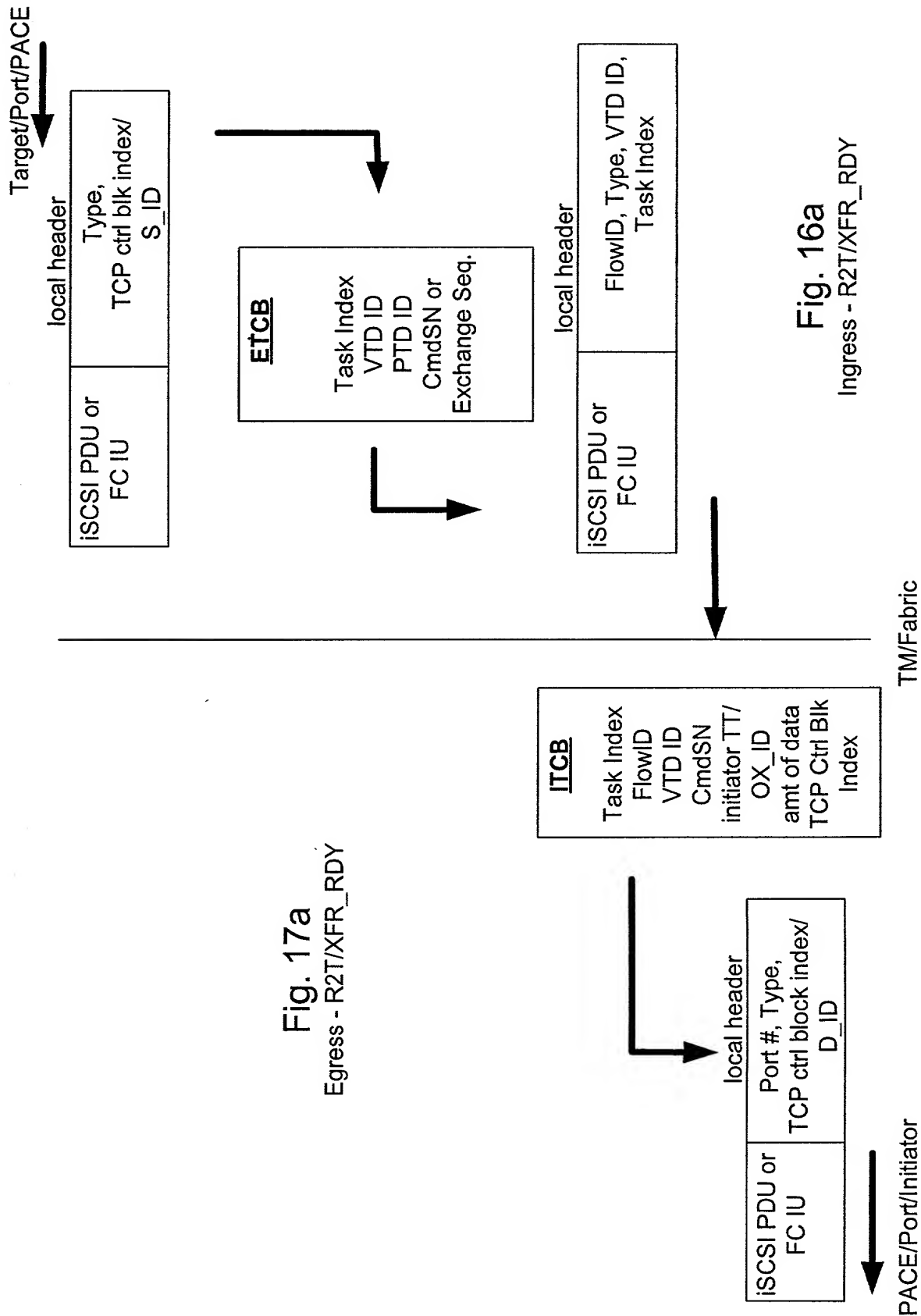


Fig. 16a
Ingress - R2T/XFR_RDY

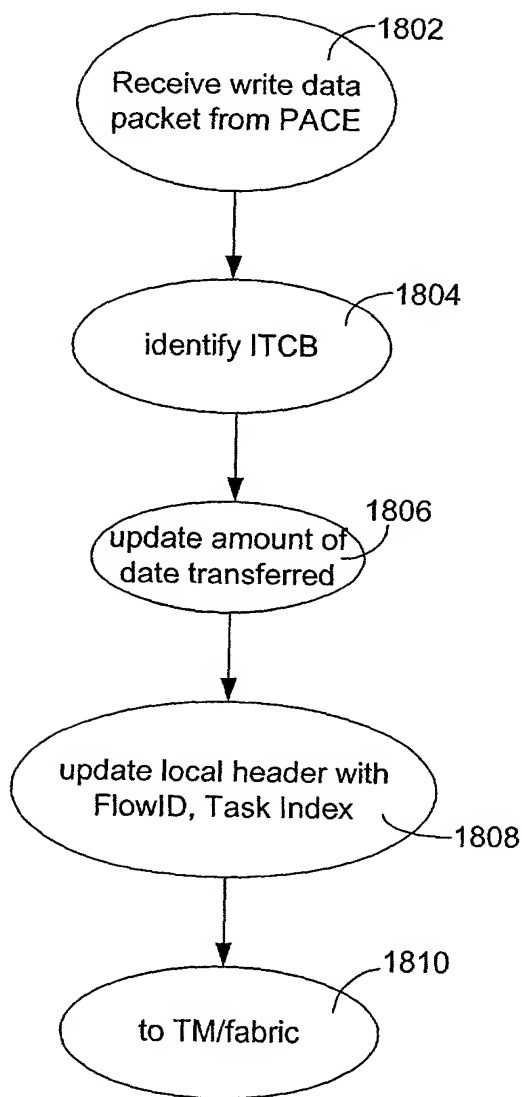


Fig. 18
(Virtualization - Ingress -
write data packet)

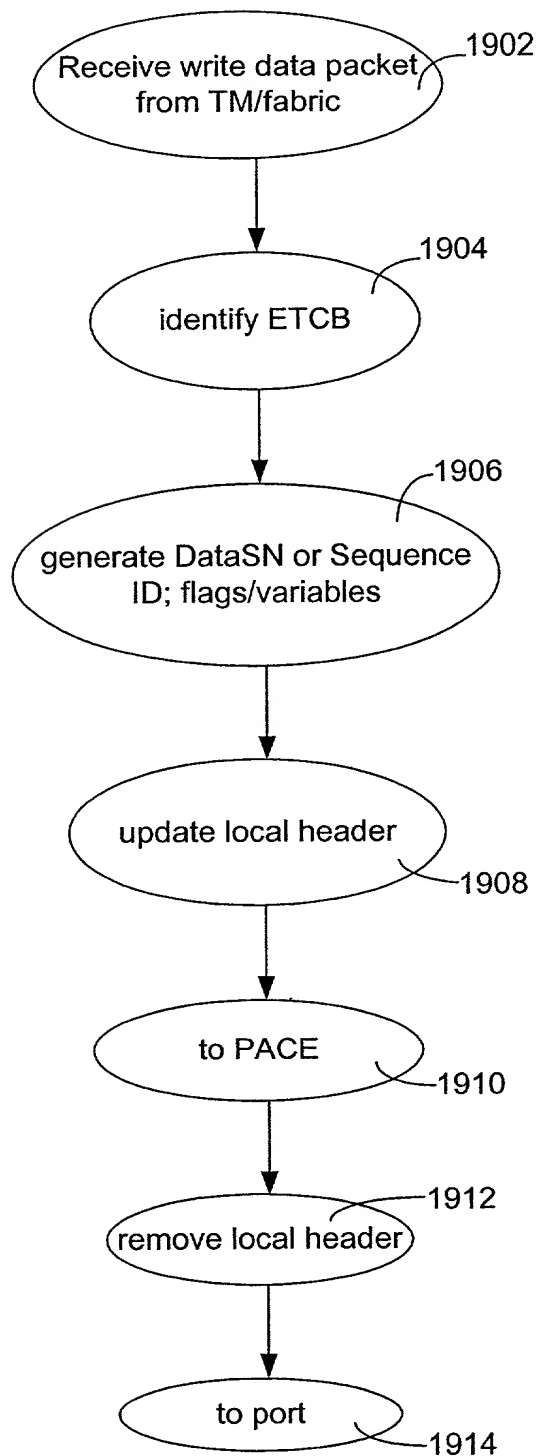


Fig. 19
(Virtualization - Egress -
write data pkt)

Initiator/Port/PACE

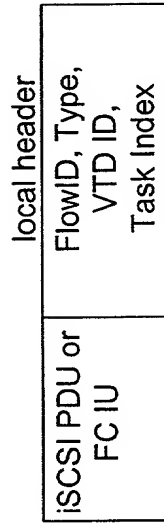
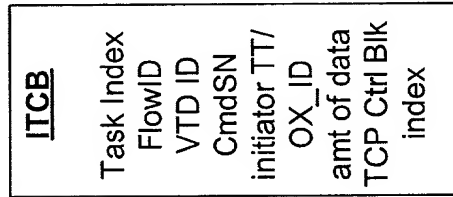
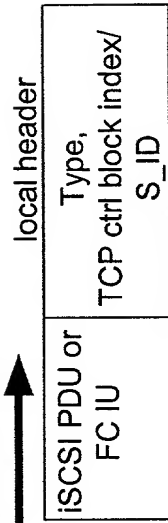
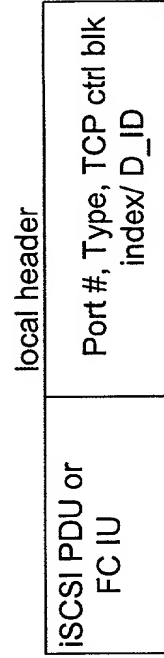
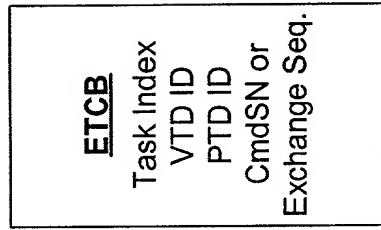


Fig. 18a
Ingress - Write Data

Fig. 19a
Egress - write data



PACE/Port/Target

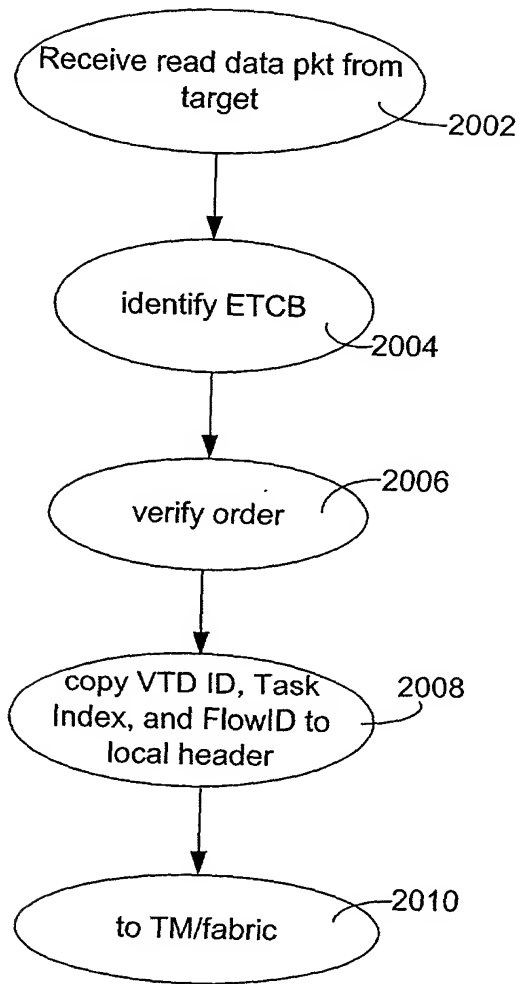


Fig. 20
(Virtualization - Ingress -
Read Data pkt)

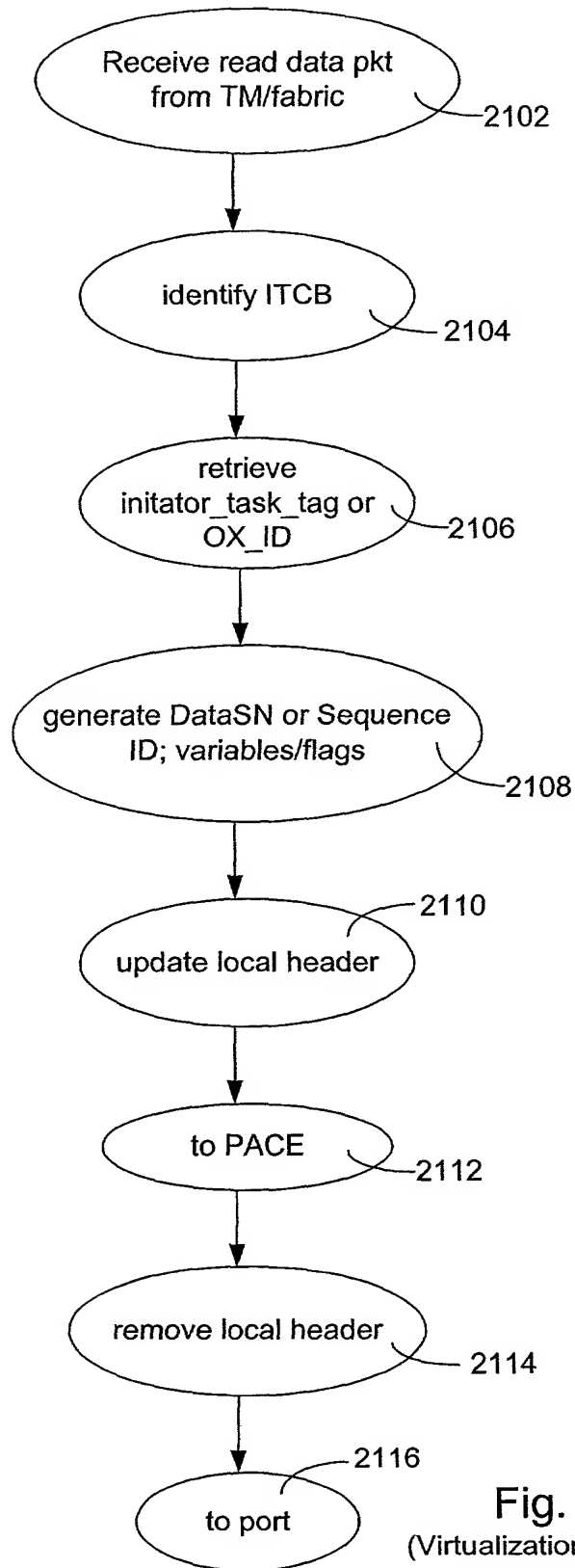


Fig. 21
(Virtualization - Egress-
Read Data pkt)

Fig. 21a
Egress - Read Data

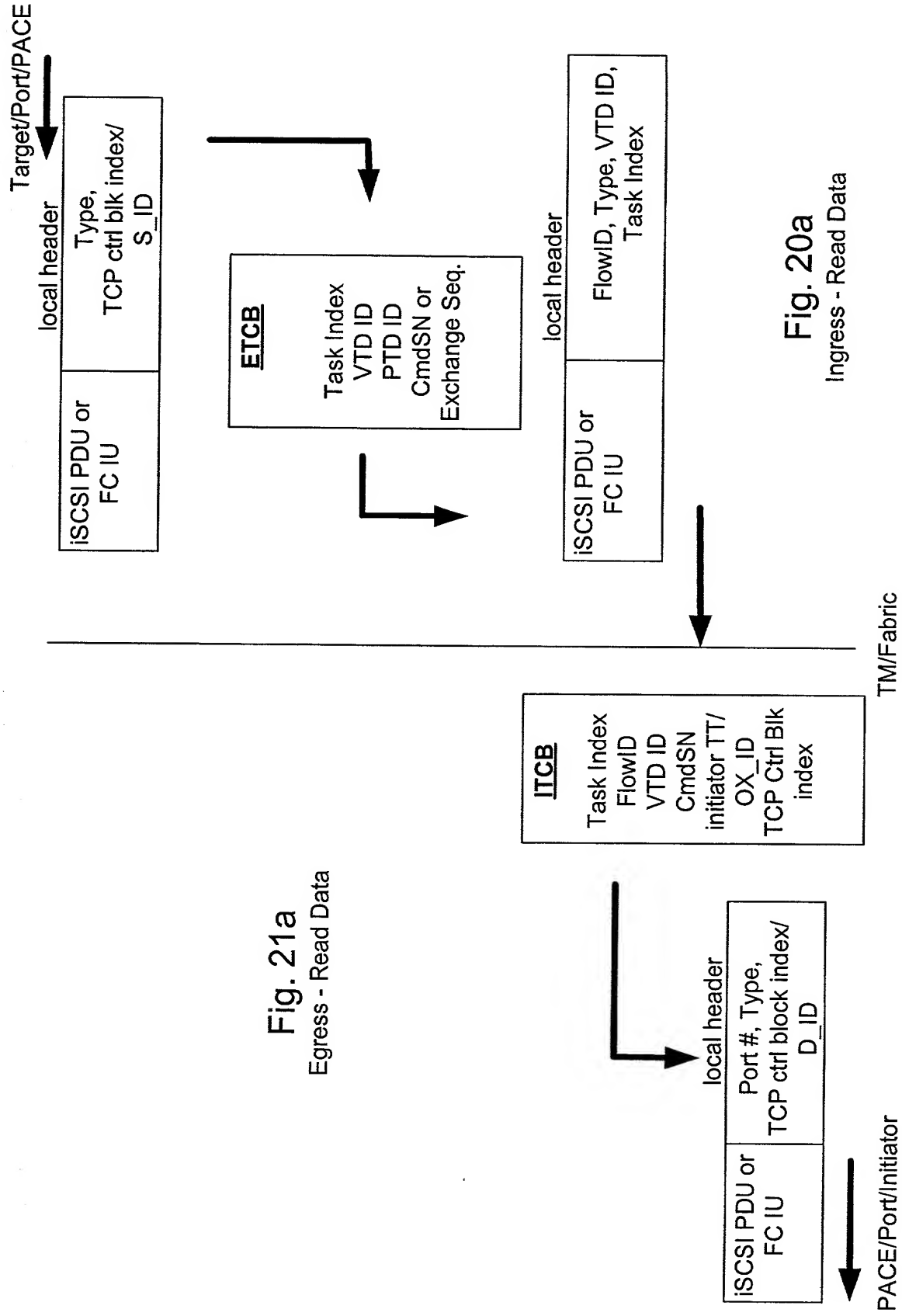


Fig. 20a
Ingress - Read Data

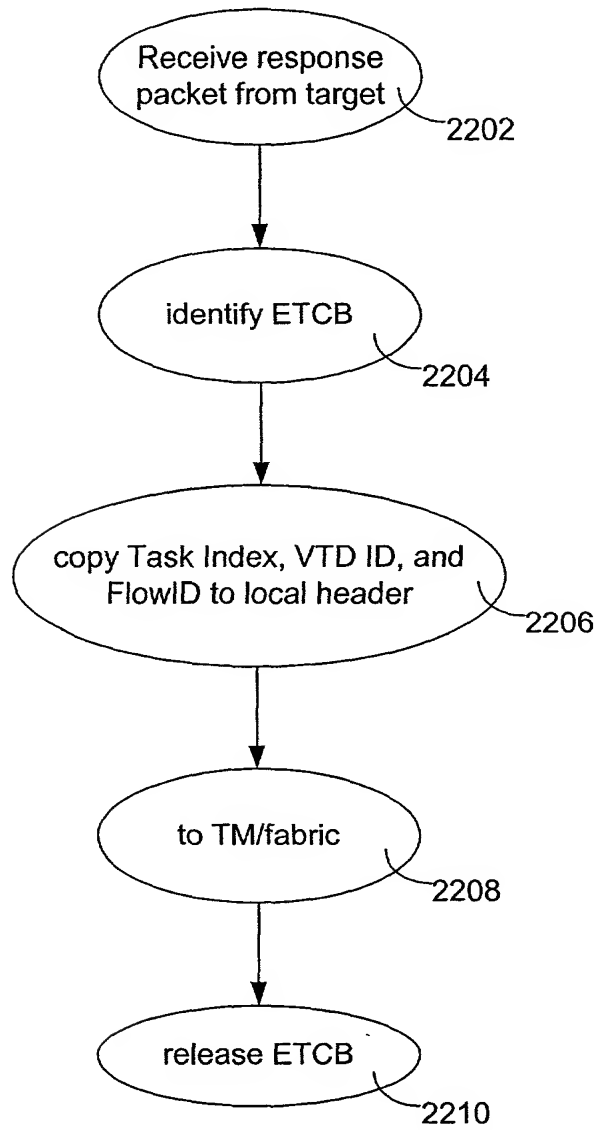


Fig. 22
(Virtualization - Ingress -
response pkt)

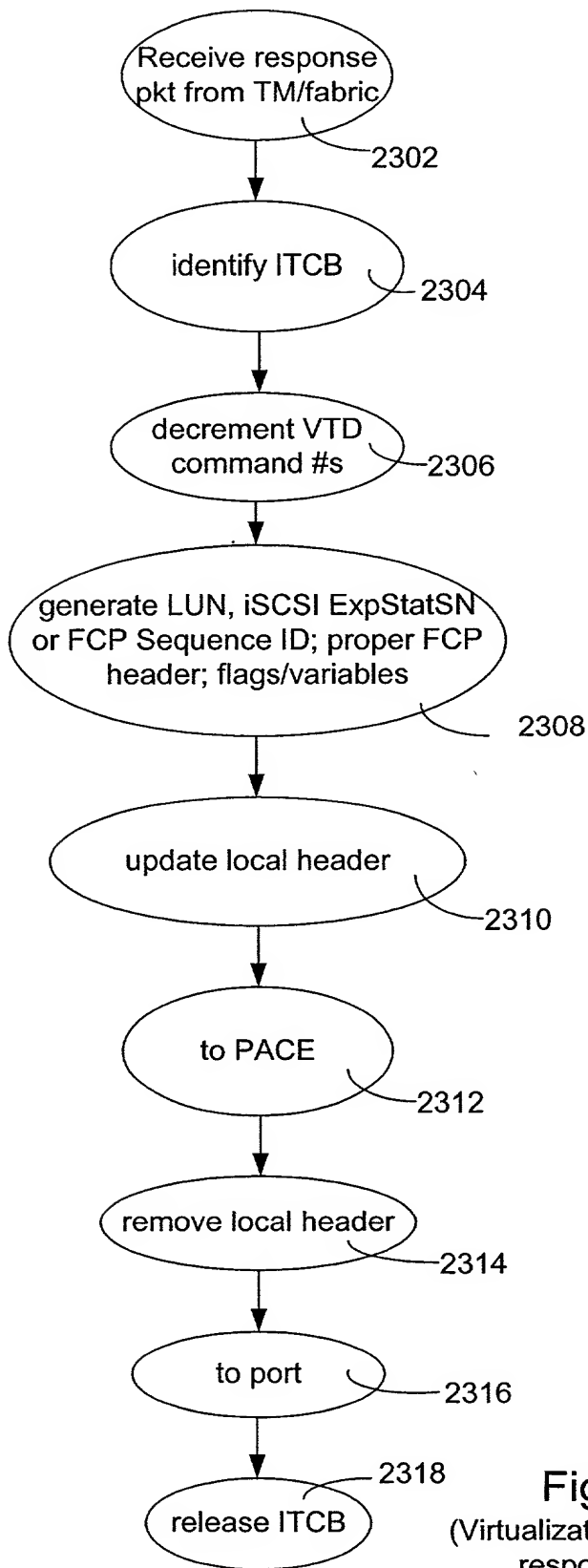


Fig. 23
(Virtualization - Egress -
response pkt)

2025-11-04 10:54:00

Fig. 23a
Egress - Response

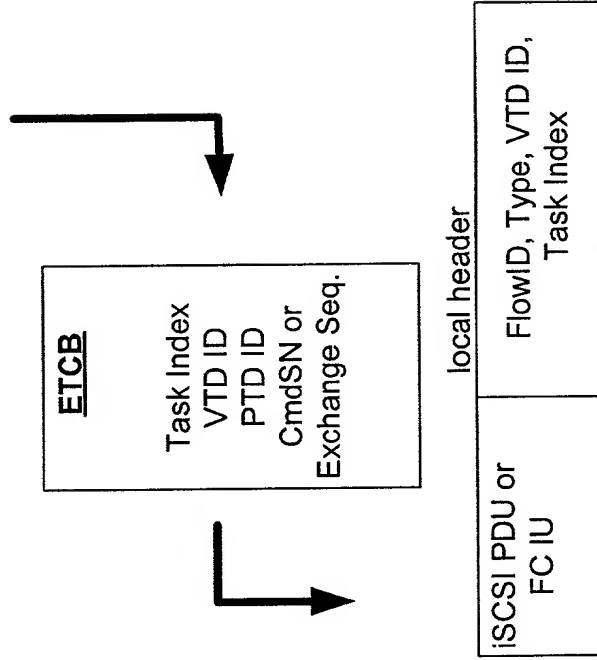
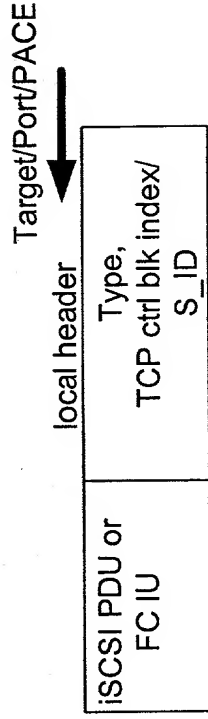
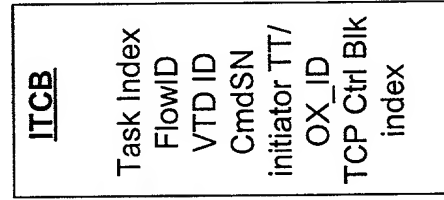
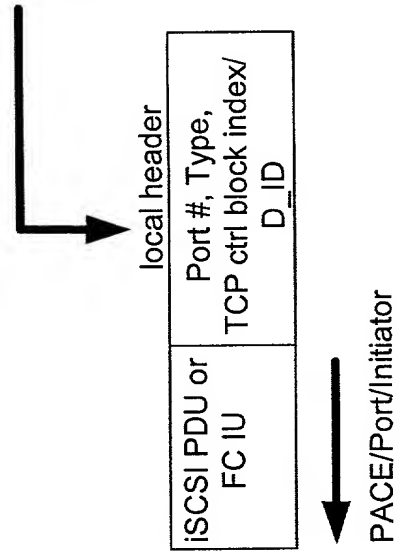


Fig. 22a
Ingress - Response

TM/Fabric

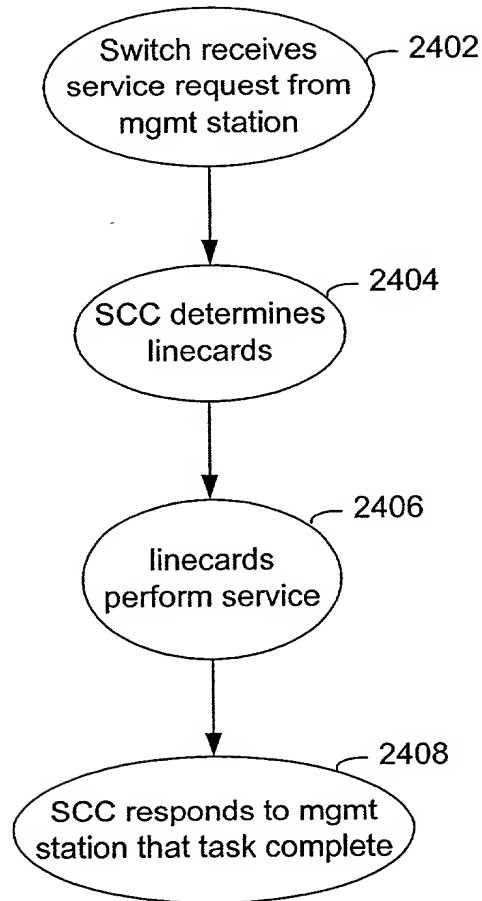


Fig.24

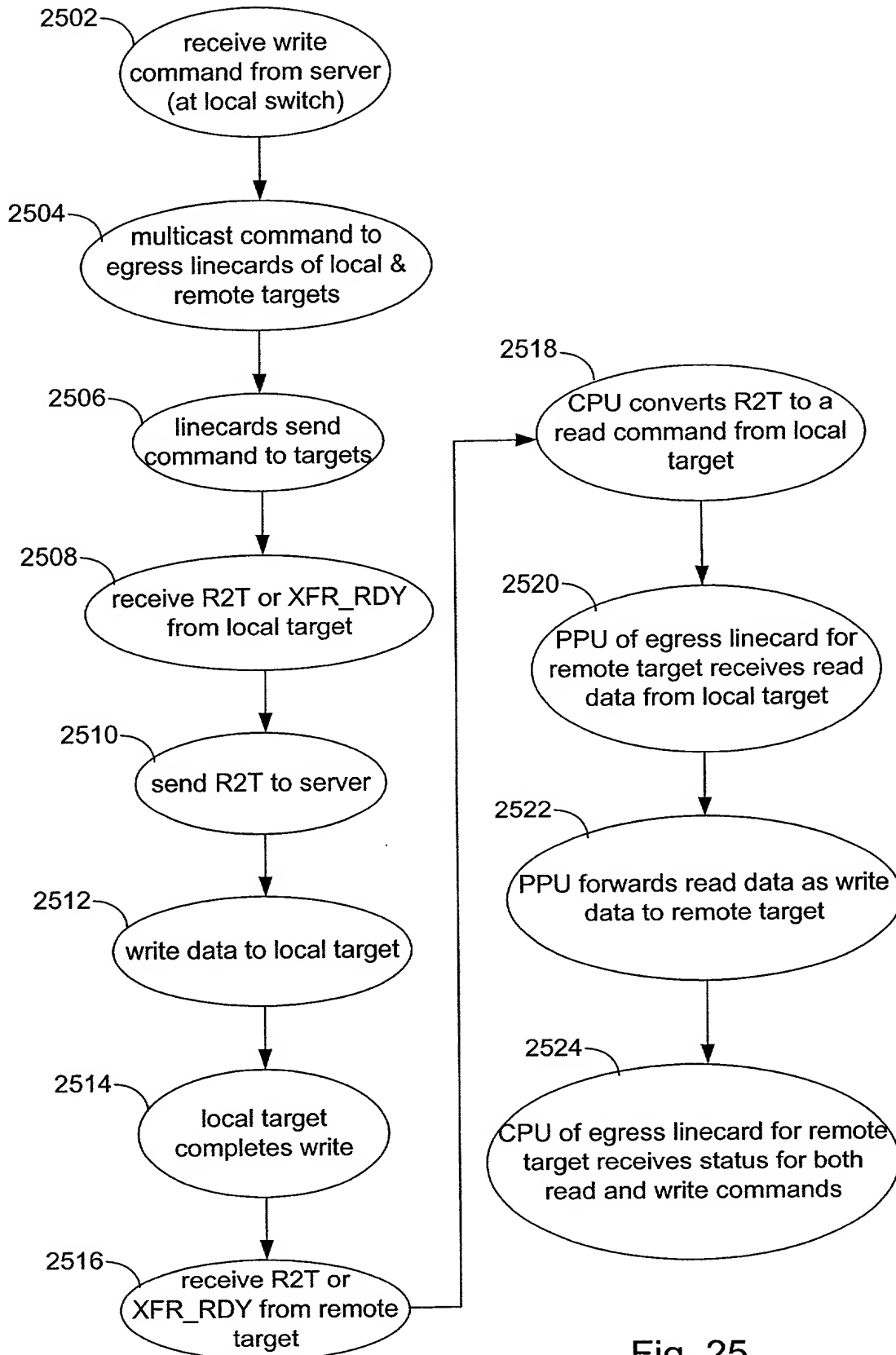


Fig. 25

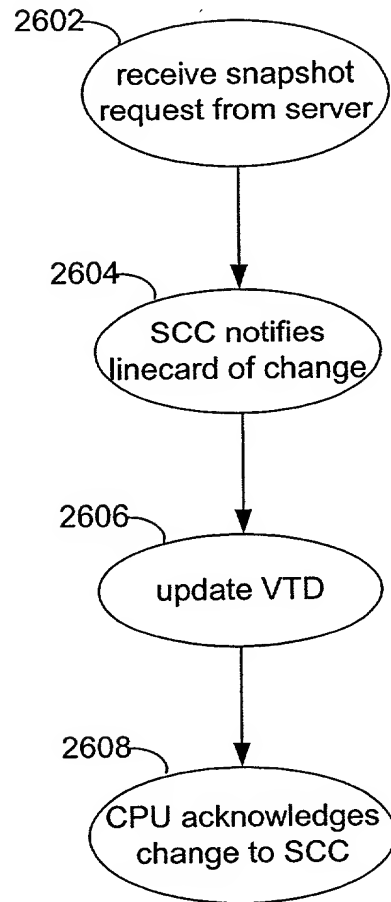
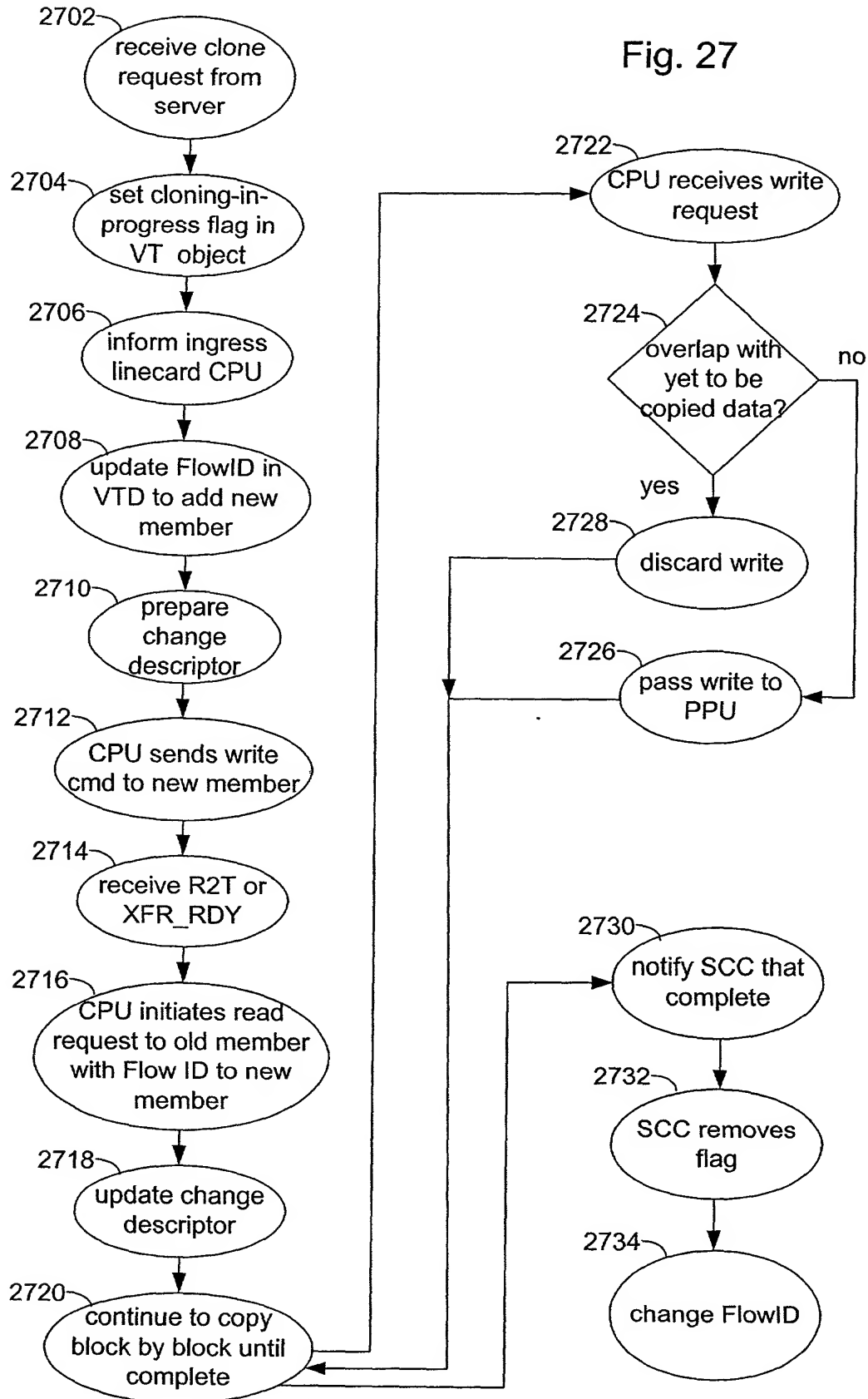


Fig. 26

Fig. 27



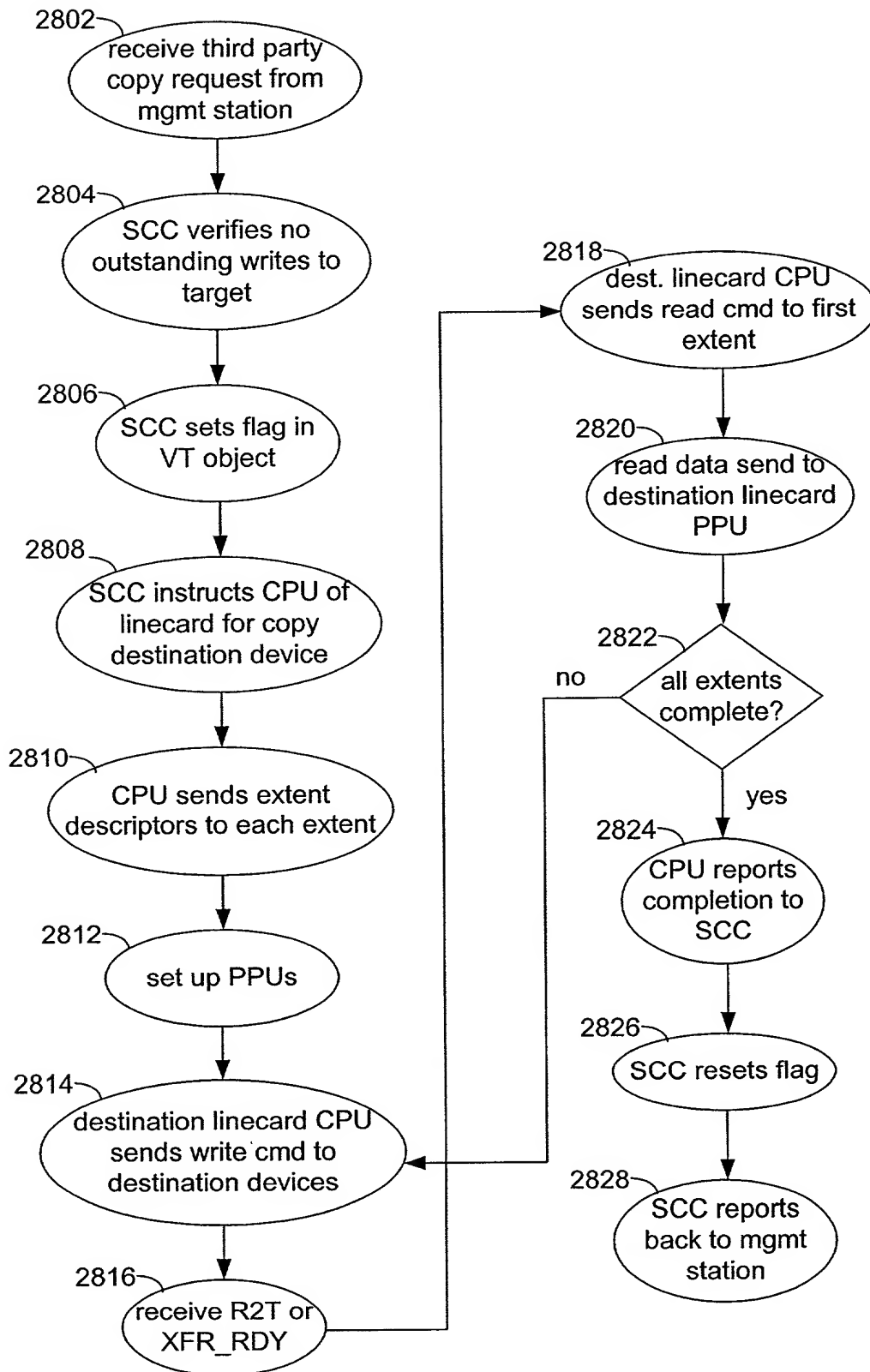


Fig. 28